

QUERY CONTROL FORM

RTIS USE ONLY

Application No. 10/053,576
Examiner-GAU DOUGHERTY-2834

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JACKET

a. Serial No.	f. Foreign Priority	k. Print Claim(s)	p. PTO-1449
b. Applicant(s)	g. Disclaimer	l. Print Fig.	q. PTOL-85b
c. Continuing Data	h. Microfiche Appendix	m. Searched Column	r. Abstract
d. PCT	i. Title	n. PTO-270/328	s. Sheets/Figs
e. Domestic Priority	j. Claims Allowed	o. PTO-892	t. Other

SPECIFICATION

- a. Page Missing
- b. Text Continuity
- c. Holes through Data
- d. Other Missing Text
- e. Illegible Text
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- g. Brief Description
- h. Sequence Listing
- i. Appendix
- j. Amendments
- k. Other

CLAIMS

- a. Claim(s) Missing
- b. Improper Dependency
- c. Duplicate Numbers
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- e. Index Disagrees
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MESSAGE

① pp-1449: Please either initial or line through citations. (copy provided for reference).

(2) On page 25 of specification, there are two (2) FIG. 58 (b) - no FIG. 58 (a).

please advise.

Thankyou

initials 

RESPONSE

initials

INFORMATION DISCLOSURE
CITATION

ATTY. DOCKET NO.

249-245

APPLICANT

TOMONARI et al.

FILING DATE

January 24, 2002

SERIAL NO.

Unknown

GROUP

2834

(Use several sheets if necessary)

 31000 U.S. PTO
 10/053576
 01/24/02

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,058,856	10/1991	GORDON et al.			
	5,069,419	12/1991	JERMAN			
	5,271,597	12/1993	JERMAN			
	5,059,133	10/1991	HIKAMI et al.			
	5,870,007	2/1999	CARR et al.			
	5,920,417	7/1999	JOHNSON			
	6,044,646	4/2000	SILVERBROOK			
	6,114,794	9/2000	DHULER et al.			
	1,258,368	3/1918	SMITH			
	4,115,750	9/1978	HANSEN et al.			
	6,087,638	7/2000	SILVERBROOK			
	6,124,663	9/2000	HAAKE et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
9-88805	3/1997	JAPAN			YES	NO
10-173306	6/1998	JAPAN				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

"Silicon Microvalves for Gas Flow Control" Phillip W. Barth, Ph.D. Hewlett-Packard Laboratories pp 276-279
 The 8th International Conference on Solid-State Sensors and Actuators, and Eurosensors IX. Stockholm,
 Sweden, June 25-29, 1995

"Electrically-Activated, Micromachined Diaphragm Valves" Hal Jerman IC Sensors Milpitas, CA 95035 pp
 363-367

Examiner*

Date Considered

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

of the semiconductor microrelay in FIG. 41;

FIG. 50 is a relation drawing used to describe the function of the semiconductor microrelay in FIG. 41;

FIG. 51 is a relation drawing used to describe the function of the semiconductor microrelay in FIG. 41;

FIG. 52 is a partially cutaway view in perspective of the structure of another semiconductor microrelay;

FIG. 53 is a top view to show the structure of a semiconductor microactuator in a related art;

FIG. 54 is a sectional view to show the structure of the semiconductor microactuator in the related art;

FIG. 55 is a sectional view to show the structure of a semiconductor microrelay in a related art; and

FIG. 56 is a schematic drawing used to describe the function of the semiconductor microrelay in the related art.

FIG. 57 is a partially cutaway view in perspective of the structure of a semiconductor microactuator using a semiconductor device corresponding to another embodiment of the invention;

FIG. 58 (b) is a sectional view to show the structure of the semiconductor microactuator in FIG. 57;

FIG. 58(b) is a top view to show the structure of the semiconductor microactuator in FIG. 57;

FIG. 59 is a partially cutaway view in perspective of the structure of a semiconductor microactuator using a semiconductor device corresponding to another embodiment of the invention;